

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A method of differentiating beer yeast, ~~said method~~ comprising

~~a first step of synthesizing a~~ pair of primers consisting of (i) a primer comprising the base sequence set forth in SEQ ID NO: 7 and (ii) a primer comprising 15-30 bp of a sequence that is complementary to a base sequence of chromosome IX of *Saccharomyces cerevisiae* located downstream from a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, and SEQ ID NO: 6 primer ~~capable of amplifying the linker portion between a base sequence (A) and a base sequence (B) in a novel gene (C) which has said base sequence (B) comprising a portion of yeast chromosome IX linked downstream from said base sequence (A) comprising a portion of the N-terminal end of yeast gene Lg-FLO1, and which includes the base sequences listed as SEQ. ID. Nos. 1-6 of the Sequence Listing;~~

~~a second step of carrying out a~~ performing PCR (Polymerase Chain Reaction) using said pair of primers ~~the primer synthesized in said first step and a~~ DNA separated from a yeast specimen to produce a PCR amplification product; and

~~a third step of differentiating whether said yeast is bottom-fermenting yeast or wild yeast, based on the PCR amplification product obtained from said second step.~~

Claim 2 (Currently Amended): A method of differentiating beer yeast comprising ~~according to claim 1, wherein said primer is~~

synthesizing a pair of primers including respectively the base sequences listed as SEQ. ID. No. 7 and No. 8 of the Sequence Listing consisting of (i) a primer comprising the base

sequence set forth in SEQ ID NO: 7 and (ii) a primer comprising the base sequence set forth in SEQ ID NO: 8;

performing PCR (Polymerase Chain Reaction) using said pair of primers and a DNA separated from a yeast specimen to produce a PCR amplification product; and

differentiating whether said yeast is bottom-fermenting yeast or wild yeast, based on the PCR amplification product.

Claim 3 (Currently Amended): ~~A method~~ The method of differentiating beer yeast according to claim 2, wherein the base sequences of said primers have one or more base substitutions, deletions or insertions and function as primers for PCR.

Claim 4 (Withdrawn; Currently Amended): A method of differentiating beer yeast, ~~said method~~ comprising

~~a first step of synthesizing a pair of primers consisting of (i) a primer comprising the base sequence set forth in SEQ ID NO: 9 and (ii) a primer comprising 15-30 bp of a sequence that is complementary to a base sequence of chromosome IX of *Saccharomyces cerevisiae* located downstream from a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, and SEQ ID NO: 6 primer capable of amplifying a portion of a base sequence (A) in a novel gene (C) which has a base sequence (B) comprising a portion of yeast chromosome IX linked downstream from said base sequence (A) comprising a portion of the N-terminal end of yeast gene Lg-FLO1, and which includes the base sequences listed as SEQ. ID. Nos. 1-6 of the Sequence Listing;~~

~~a second step of carrying out a~~ performing PCR (Polymerase Chain Reaction) using said pair of primers ~~the primer synthesized in said first step~~ and a DNA separated from a yeast specimen to produce a PCR amplification product; and

~~a third step of~~ differentiating whether said yeast is bottom-fermenting yeast or wild yeast, based on the PCR amplification product ~~obtained from said second step~~.

Claim 5 (Withdrawn; Currently Amended): ~~A~~ The method of differentiating beer yeast according to claim 4, wherein said pair of primers consists of (i) a primer comprising the base sequence set forth in SEQ ID NO: 9 and (ii) a primer comprising the base sequence set forth in SEQ ID NO: 10 ~~primer is a pair of primers including respectively the base sequences listed as SEQ. ID. No. 9 and No. 10 of the Sequence Listing.~~

Claim 6 (Withdrawn; Currently Amended): ~~A method~~ The method of differentiating beer yeast according to claim 5, wherein the base sequences of said primers have one or more base substitutions, deletions or insertions and function as primers for PCR.

Claim 7 (Currently Amended): A set pair of primers ~~including respectively the base sequences listed as SEQ. ID. No. 7 and No. 8 of the Sequence Listing~~ consisting of (i) a primer comprising the base sequence set forth in SEQ ID NO: 7 and (ii) a primer comprising the base sequence set forth in SEQ ID NO: 8.

Claim 8 (Canceled)

Claim 9 (Withdrawn; Currently Amended): A set pair of primers ~~including~~
~~respectively the base sequences listed as SEQ. ID. No. 9 and No. 10 of the Sequence Listing~~
consisting of (i) a primer comprising the base sequence set forth in SEQ ID NO: 9 and (ii) a
primer comprising the base sequence set forth in SEQ ID NO: 10.

Claim 10 (Withdrawn; Currently Amended): ~~A set~~ The pair of primers according to
claim 9, wherein the base sequences of said primers have one or more base substitutions,
deletions or insertions and function as primers for PCR.